

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A data network management system for identifying unauthorized access to a data network service, provided at a service node in a data network, by a user node in said data network, said service node having an agent and having means for maintaining a user access list, said user access list having at least one data network address corresponding to at least one user node in said data network, said system comprising:

a data communication means for periodically polling said agent at said service node and for retrieving a user access list from said agent;

a database for maintaining an authorized access list for said service node;
and

a data processing means for comparing said user access list to said authorized user access list and for updating said authorized user access list; ~~said authorized user access list being maintained in said database, an updated authorized user access list based on an updated the user access list for retrieved from~~ said agent.

2. (Previously presented) The data network management system as defined in claim 1, wherein said agent is a Simple Network Management Protocol agent.

3. (Previously presented) The data network management system as defined in claim 1, wherein said data communication means is a Simple Network Management Protocol communication means.

4. (Previously presented) The data network management system as defined in claim 1, further including means for installing said agent at said service node, said agent having means to communicate with said data communication means.

5. (Currently amended) A method for identifying unauthorized access to a data network service, provided at a service node in a data network, by a user node in said data network, said service node having an agent and having means for maintaining a user access list, said user access list having at least one data network address corresponding to at least one user node in said data network, ~~said steps method~~ comprising:

- a) periodically polling an agent and retrieving said user access list, for a given period of time, from said service node in said data network;
- b) comparing said user access list to an authorized access list;
- c) determining if an said authorized access to said service node was unauthorized occurred based on comparing said user access list to the authorized access list said comparison step b); and
- d) if determined that said unauthorized access occurred in step c) was not authorized, initiating a notification process;
wherein said user access list identifies a plurality of accesses to said service node.

6. (Currently amended) The method as defined in claim 5, further including ~~a step of updating said authorized access list based on an updated said user access list provided by retrieved from said agent service node.~~

7. (Currently amended) The method as defined in claim 5, further including ~~a step of installing said agent at said user node, prior to periodically polling and retrieving said user access list in step a).~~

8. (Currently amended) The method as defined in claim 5, further including ~~a step of selecting said service node for identification based on a predetermined criteria, prior to retrieving said user access list in step a).~~

9. (Currently amended) The method as defined in claim 5, wherein said notification process ~~further including a step of~~ comprises notifying a Network Operations Console.

10. (Currently amended) The method as defined in claim 5, wherein ~~steps a)~~ through c) are repeated, and wherein said user node is selected from one of a plurality of user nodes in said data network.

11. (Currently amended) The method as defined in claim 5, wherein ~~steps a)~~ through d) are repeated, and wherein said user node is selected from one of a plurality of user nodes in said data network.

12. (Previously presented) The method as defined in claim 5, wherein said agent is a Simple Network Management Protocol agent.

13. (Currently amended) A computer-readable medium for identifying unauthorized access to a data network service, provided at a service node in a data network, by a user node in said data network, said service node having an agent and having means for maintaining a user access list, said user access list having at least one data network address corresponding to at least one user node in said data network, and said medium having stored thereon, computer-readable and computer-executable instructions which, when executed by a processor, cause said processor to perform steps comprising:

a) periodically polling an agent and retrieving said user access list, for a given period of time, from said service node in a data network;

b) comparing said user access list to an authorized access list;

c) determining if ~~said unauthorized an access to said data network service occurred~~ was authorized based on said comparison step b);

d) if determined that said ~~unauthorized~~ access was unauthorized ~~occurred in step c)~~, initiating a notification process.

14. (Previously presented) The computer-readable medium as defined in claim 13, further containing computer-readable and computer-executable instructions which perform a step of updating said authorized access list based on user access information.

15. (Previously presented) The computer-readable medium as defined in claim 13, further containing computer-readable and computer-executable instructions which perform a step of installing said agent at said user node, prior to retrieving said user access list in step a).

16. (Previously presented) The computer-readable medium as defined in claim 13, further containing computer-readable and computer-executable instructions wherein said steps a) through c) are repeated, and wherein said user node is selected from one of a plurality of user nodes in said data network.

17. (Previously presented) The computer-readable medium as defined in claim 13, wherein said agent is a Simple Network Management Protocol agent.

18. (Currently amended) A computer for use in a data network for identifying unauthorized access to a data network service, provided at a service node in a data network, by a user node in said data network, said service node having an agent and having means for maintaining a user access list, said user access list having at least one data network address corresponding to at least one user node in said data network; said computer comprising:

~~a storage means for storing an authorized access list for said service node;~~

a central processing unit;

[[a]] data communication means for periodically polling said agent at said service node and retrieving a user access list from said agent; and

~~_____ said storage means having a database for maintaining an authorized access list for said service node; and~~

[[a]] data processing means for comparing said retrieved user access list to said authorized ~~user access list~~ and for updating said authorized ~~user access list~~, ~~said authorized user access list being maintained in said database, an updated authorized user access list based on an updated~~ the user access list for retrieved from said agent.

19. (Currently amended) The data network as defined in claim 1, wherein said authorized ~~user access list~~ is a common authorized user access list, ~~and wherein said common authorization user access list~~ that includes a range of user nodes for comparing to said user access list to determine if said user access list is a subset of said common authorization ~~user access list~~.

20. (New) The data network management system of claim 1 wherein said user access list identifies a plurality of accesses to said service node.